



# **Breakout Sessions:** *Introduction and Template*

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*NASA/GSFC Workshop on Artificial Intelligence*

11-27-2018 to 11-29-2018



# Breakout Sessions Process

- Each session will be 50 minutes long
    - 5 minutes for context setting by the Area POC
    - 35 minutes for discussions
    - 10 minutes for filling out response ppt slide(s)
  - 3 Sessions (one each day), each one with 1 Theme:
    - 4 areas have been identified for each theme
    - 4 questions have been identified for each area
- ➔ **16 Questions per Theme**
- There will be one group per question
  - Groups are self selected and should be limited to 20 people
  - PPT template has been/will be provided to guide responses
  - Responses to be sent electronically to POC for the area: see Table
  - All responses will be aggregated into a white paper that will be available on website post workshop



# Session Topics

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- Session 1 – Tuesday 11/27 – **Theme 1 “AI for NASA Science Applications”**
  - **Areas:** Heliophysics, Astrophysics, Earth Science and Planetary Science
- Session 2 – Wednesday 11/28 – **Theme 2 “AI for NASA Engineering Applications”**
  - **Areas:** Advanced Manufacturing, AI for Integration & Testing (I&T), Corporate Knowledge Capture, Organization and Retrieval, Model Based System Engineering (MBSE) and Mission Design
- Session 3 – Thursday 11/29 – **Theme 3 “AI for Intelligent Mission Autonomy”**
  - **Areas:** Spacecraft and Instrument Health Monitoring, Intelligent and Collaborative Constellations (ICC), Autonomous Mission Operations, Onboard Image Data Understanding (OB IDU)



# 16 Questions per Theme

16 Questions  
per Theme

16  
Numbered  
Stands  
Throughout  
the Room



- Each Day:
  - Select the Question that is the most of interest to you (lists of all Questions are in your folder)
  - Gather around the corresponding number
- Each stand carries blank response sheets
- A box is located on the stage for collecting paper responses
- You have also been sent a pptx template for responses  
=> each group lead should send the filled pptx to the Area POC (listed in the Questions Table)



# [Theme # /Area # /Question # ]

*When responding to the Question above, address the following bullets to the best your ability*

1. How would AI/ML be able to address this question? What is benefit over traditional approaches?
2. Which types of AI technologies would be involved?
3. Which organizations have already developed technologies that would be relevant? (e.g academia, small business, NASA centers, OGA etc....be specific)
4. What could be some short term proof of concept(s)?